

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Bin Zhang et al.

Confirmation No.:

Application No.: 10/802,428

Examiner:

Filing Date: 03/17/2004

Group Art Unit:

Title: ESTIMATING MOTION TRIALS IN VIDEO IMAGE SEQUENCES

Mail Stop Amendment  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97 (c) together with either a:  
☐ Statement under 37 CFR 1.97(e), or  
☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:  
☐ Statement under 37 CFR 1.97(e)(1) or (2), and  
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).  
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

☒ I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450. Date of Deposit: 09/08/2004

OR

☐ I hereby certify that this paper is being transmitted to the Patent and Trademark Office facsimile number \_\_\_\_\_ on \_\_\_\_\_ Number of pages: \_\_\_\_\_

Typed Name: Renna Johnson

Signature: Renna Johnson

Respectfully submitted,

Bin Zhang et al.

By LeRoy D. Maunu

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Reg. No. 35,274

Date: 09/08/2004

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## PATENT APPLICATION

Sheet 1 of 3

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200314385-1

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GROUP

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A	6,295,377	09/25/2001	Dufaux et al.	
	1B	6,584,433	06/24/2003	Zhang et al.	
	1C				
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
	1L					
	1M					
	1N					
	1O					
	1P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	1Q	Wang et al., Content-based Utility Function for Real-time MPEG-4 Video Transcoding, 2003 International Conference on Image Processing September 14-17, 2003, pages 1-4.
	1R	Chen et al., A Fast Block Matching Algorithm Based on the Winner-Update Strategy, In proceedings of the Asian Conference on Computer Vision, vol. 2, pages 977-982, Taipei, Taiwan, 01/2000, <a href="http://citeseer.nj.nec.com/chen00fast.html">http://citeseer.nj.nec.com/chen00fast.html</a> .
	1S	Adams et al., An Empirical Comparison of Methods for Image-based Motion Estimation, IEEE?RSJ International Conference on Intelligent Robots and Systems, October 2002, pages 1-6.

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	1Q	Odobez et al., Robust Multiresolution Estimation of Parametric Motion Models Applied to Complex Scenes, IRISA Publication Interne No. 788, 1994, 30 pages.
	1R	Estlick et al., Algorithmic Transformations in the Implementation of K-means Clustering on Reconfigurable Hardware, ACM FPGA 2001, <a href="http://citeseer.nj.nec.com/estlick01algorithmic.html">http://citeseer.nj.nec.com/estlick01algorithmic.html</a> , pages 1-8.
	1S	Zhang, Generalized K-Harmonic Means -- Boosting in Unsupervised Learning, Hewlett-Packard Laboratories, 10/12/2000, 12 pages, <a href="http://www.hpl.hp.com/techreports/2000">http://www.hpl.hp.com/techreports/2000</a> .

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	1Q	Zhang et al., K-Harmonic Means-A Data Clustering Algorithm, Hewlett-Packard Laboratory, October 1999, 25pages.
	1R	Forman et al., Lineear Speed-Up for a Parallel Non-Approximate Recasting of Center-Based Clustering Algorithms, including K-Means, K-Harmonic Means, and EM, Hewlett-Packard Laboratory, July 13, 2000, 6 pages.
	1S	Gawrysiak et al., Regression-yet another clustering method, International, Intelligent Information Systems Conference, Advances in Soft Computing Journal, Springer-Verlag, 2001, 10 pages.

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